

# FOLIO

## The University Buys \$2.3 Million Control Data Computer Education System

Students at the University will be taking instruction from a Canadian-made, large-scale computer system by September, 1980. One of the main uses will be in medical education.

The University's agreement to purchase a Control Data PLATO computer-based education system was announced jointly by Dr. Horowitz and Michael S. McLagan, Vice-President, Education and Data Services Division of Control Data Canada, Ltd. at a press conference held in the Faculty Club last Thursday. The negotiations started after the Board of Governors authorized the \$2.3 million expenditure from capital reserves early in January.

The University of Alberta has been in the forefront of developing computer-based instruction for the past twelve years through its Educational Research Services Division. Through the Division's leadership, computer courses have been developed in such diverse areas as cardiology for medical students, French, and mathematics.

Program development and conversion from an existing system is already underway using terminals connected by telephone lines to the Control Data PLATO system at the University of Quebec. The computer system and first student terminals for The University of Alberta will be installed this summer, forming the first PLATO system in western Canada.

"Every University is well-known for a relatively small number of

activities," Dr. Horowitz said, suggesting that Computer Assisted Instruction has played some part in the international reputation the University enjoys. The PLATO system, according to Dr. Horowitz, will maintain the University's prominence in the field.

Capable of handling more than 1,000 student terminals simultaneously, the PLATO system will be controlled by a large-scale CYBER 170 Model 720 computer mainframe which is manufactured for world markets at Control Data Canada's Mississauga, Ontario facility. Control Data PLATO computer-based education systems are now being used for education and training throughout North America and Europe.

"Individualized learning, where the student or trainee can learn at his or her own pace, has become a very cost-efficient approach to providing instruction for education and business training," Mr. McLagan said. "It allows the educator to devote more time to the needs of individual students with assurance of a uniformly high standard of learning."

The PLATO system also allows for training to be conducted anywhere there is a telephone to connect the terminal to the central computer.

Alberta Advanced Education and Manpower has been conducting an innovative feasibility project of a PLATO system for basic education at the Alberta Vocational Centre (Edmonton).



*Dale Bent, Director of Computing Services, talks about computer-based education at the PLATO press conference on Thursday, 27 March.*

This program provides the opportunity for adults to learn basic reading and mathematics skills and trades learning. With The University of Alberta installation, it will be possible to offer such service without high telecommunications costs.

The University of Alberta will have 40 student terminals operational in September. One of the first users will be the Faculty of Medicine's cardiology unit which has developed innovative computer-based instruction for medical students to learn to recognize heart problems which they could not necessarily learn

from live patients. Terminals will be used for courseware development in other Faculties and student terminals will be added as the courseware become available. Some of the courseware will be adapted from the thousands of hours of lessons developed at other universities.

Seated before a simple typewriter keyboard and a visual display screen, the student or trainee selects courses and answers questions posed by the prepared lesson. The student can, at a touch, erase errors, answer questions or ask for help with a difficult problem. □

## Doctors Learn the Difference

Medical students listen carefully to the patient's heartbeat. They anxiously scan other symptoms. They study possible diagnoses. They make their choice and prescribe treatment. A message flashes on the computer screen that the patient has just died. They made the wrong diagnosis.

While the medical students have learned not to make that mistake again, no harm has been done to the patient. For the patient in this case is a Canadian-made computer which has been programmed to teach medical students to recognize the most common coronary problems.

The program for medical students was demonstrated at the announcement on 27 March of The University of Alberta's acquisition of a large-scale Control Data PLATO computer-based education system.

Author of the program is Richard Rossall of the Faculty of

Medicine at the University and it was demonstrated by Wayne Osbaldeston, a specialist in computer training for medical applications, who programmed the patient simulations.

The cardiology program is used in The University of Alberta's second-year medical program to familiarize doctors with the symptoms of the most common coronary complaints. The PLATO system can actually duplicate the heart sounds characteristic of these ailments and provide the medical student with X-rays and ECGs through a visual projection capability.

"The PLATO system is invaluable in medical instruction because it allows doctors to become familiar with the symptoms of diseases that they would otherwise not be exposed to during ward rounds," explains Mr. Osbaldeston. "The PLATO system allows doctors to diagnose



Wayne Osbaldeston demonstrating the cardiology instructional program, one of the current applications of PLATO on campus.

and treat simulated diseases in a controlled environment. Furthermore, the computer is programmed to review the student's

treatment of simulated patients and to point out any errors made during the simulated treatment." □

## FOLIO

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The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons.

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## General Faculties Council

*The regular monthly meeting of GFC was held on Wednesday, 26 March. The following items were among those considered.*

### New Members

The following undergraduate students who had been elected to serve on the Council received their appointment, in each case coming to a close in March 1981:

Chanchal Bhattacharya, Richard Miller, and Ron Snyder, all students in the Faculty of Business Administration and Commerce; and Martin Kratz, Kelly Merkl, and Carol Karasiuk, each being a student in the Faculty of Engineering.

In addition, the names of the following faculty members elected to GFC were received: C.W. Hobart, Sociology; R.C. Macleod, History; R.E. McKown, Political Science; C.T. Peacocke, Drama; and R. Silvester, Art and Design.

### East Asian Studies

In what might well have been one of the quickest decisions ever arrived at by Council (apart from carrying motions to adjourn), GFC approved a proposal to establish a new Department of East Asian Languages and Literatures at the University. The alacrity of Council, however, was not the result of any desire for haste. Rather, the proposal, endorsed by the University Planning Committee on 24 January, was the culmination of work which had been initiated as long ago as 1973, when the Faculty of Arts established a Committee for Information and Advice on East Asian Studies. Indeed, in 1975, a proposal to establish the new Department "as soon as possible" was endorsed by the Faculty of Arts. Also, Council members, in making their decision, had already been supplied with a

fifty-one page package containing very detailed information.

East Asian language studies are not new on campus. In 1974 and 1975, a Sessional Lecturer was appointed to teach the Japanese language, funding in this instance coming from the Department of History and the Japan Foundation. For 1976 and 1977, the University received funds from the "Tanaka Fund" (in national competition administered by the AUCC) to appoint a Visiting Assistant Professor. Also, instruction in the Chinese language has grown apace. In 1975-76, an Associate Professor was assigned to part-time duties teaching this language, an assignment which was made a full-time responsibility in 1976. Since the 1977-78 academic year, the Faculty of Arts has also funded a sessional position in the Chinese language. In the current academic year, the East Asian languages

program has some seven members of the academic staff giving instruction, in addition to other academic (drill) assistants.

The proposal to establish the Department of East Asian Languages and Literatures will now be recommended to the Board of Governors for approval.

### *St. Joseph's College*

Council considered, and approved after some debate, a request from the Principal of St. Joseph's College, Fr. de Valk, that the Principal of the College or his designee become an appointed member of Council.

As was evident in the documentation supplied to Council, Fr. de Valk's request had been considered at some length before being presented to Council by its Executive Committee. Fr. de Valk was also invited to address Council in support of the request. He cited the University's involvement in establishing the College in 1926 along the lines of a teaching and residential institution similar to the colleges which comprise the University of Toronto. It was the original intention of the College that it provide courses in the humanities all within the existing structure of the University. Students, Fr. de Valk pointed out, enrol in courses offered by the College but which are fully integrated within our institution's academic system. Also, while the College is financially and legally autonomous, its sole source of revenue is the University, through fees which students pay and through a formula related to the number of its students. Finally, in support of the request, Fr. de Valk also referred to the fact that St. Joseph's College had representation on the Senate of the University, when that body was the chief academic and administrative organ of the University.

President Horowitz, Chairman of GFC, clarified the matter still further. He said that, although there is no reference to representation of St. Joseph's College on GFC in the current Universities Act, it was not the result of a

deliberate decision of those who drew up the Act. Given the contents of the Act, however, only University staff members may be appointed to GFC. A motion was passed, therefore, recommending to the Board of Governors that, for the purpose of serving on the Council, the Principal of the College or his designee be declared a member of the University's academic staff. Contingent upon such a declaration by the Board, Council approved the appointment to GFC of the Principal or his designee. Council also approved a motion recommending to the department of Advanced Education and Manpower that The Universities Act be amended in due course to allow representation of St. Joseph's College on GFC in its own right.

### *Undergraduate Scholarships*

On Wednesday, 26 March, GFC approved a proposal endorsed by the Undergraduate Scholarship Committee to establish a new undergraduate scholarship program for the 1980s. The program calls for awards to be made to students who, in terms of academic attainment, place within the top five percent in the University.

The proposal is an exciting one—especially so for students. To be administered on a Faculty basis, it is proposed that the awards will be named "University of Alberta Faculty Scholarships" and that academic excellence will be the sole criterion used in their disbursement. For example, students in the top 1.5 percent, regardless of year, would receive \$500; those in the next 1.5 percent \$350 each; and those in the next 2 percent \$250. Of course, the proposal is contingent upon finding funds to support the program and it is envisaged that awards will be much smaller during the early stages.

These new scholarships, it must be noted, will not detract from the current program of bursaries awarded on the basis of academic attainment and financial need, a concept adopted by The University of Alberta in 1971 and

only paralleled in two other universities in Canada. In fact, the Undergraduate Scholarship Committee, according to the documents submitted to GFC, is reluctant to move away from the "bursary concept" and has established as a major goal for the 1980s a total undergraduate award program, academic scholarships and bursaries combined, to reach ten percent of the full-time student body. The proposal approved last week was submitted with the encouragement of the Finance Committee of the Board of Governors.

### *Aid to Writing Competence*

At the meeting of General Faculties Council last week, the greater part of the time available was taken up with a consideration of several motions endorsed by the Executive Committee and reported to GFC by the Vice-President (Academic) at the request of the President. These motions, to do with the establishment of testing procedures for the diagnosis of writing difficulties among undergraduate students entering their first year and their remedy, met with some debate before they were carried individually with amendments.

The first of the five motions suggested that "universal testing" be carried out on a selective basis, encompassing mandatory testing of approximately 600 students. What was meant by the term "universal testing" and how students were to be selected caused a number of Council members present some difficulty. Several amendments were introduced which attempted either to define the matter more clearly or to bring the sense of the motion closer to the amendment movers' own perceptions. Eventually, an amended motion was carried which will require universal testing on a selective, Faculty basis in the fall. The tests will be a requirement for the students selected. Also, every effort will be made to ensure that such diagnostic procedures will not duplicate similar processes to which students in certain Faculties are already subjected.

The second motion was con-

cerned with the establishment of a remedial writing program in the fall of 1980. As with the first motion, a major element in the discussion was whether or not such a program should be undertaken on a voluntary or mandatory basis. Also, the question arose as to how many students should be able to make use of a remedial program—just those subjected to diagnosis or all who believe they require assistance? After discussion, the original motion was approved. This seeks the institution of a remedial program in September to provide assistance to no more than half the students tested. The staff engaged for the program will also administer and mark the tests.

The third motion, carried without substantive change, calls for a President's committee to oversee the diagnostic and remedial activities referred to above.

The fourth motion, also approved, requires the President's committee (named as the President's Committee on Testing and Remediation) to report its progress through the GFC Executive Committee to GFC in January 1981 and to make recommendation concerning the expansion of the program.

The fifth motion had to do with the funds required to support the testing and remedial program, in sum \$148,000. The motion that UPC be urged to provide the necessary funds was passed with the addition that UPC attempt to secure special funding to support the program. The addition was caused by the concern expressed by some members of Council that monies should not be diverted from "academic" programs to support the work of the Committee of Testing and Remediation.

### *Other Matters*

Dr. Chatterton (Geology) wondered why numbers of votes *pro* and *con* resolutions were not divulged. The President stated that in eleven years no one had required their regular announcement.

In response to a question concerning proposed accommo-

duction rates in student residences, Dr. Horowitz informed Council that the Finance Committee of the Board of Governors had discussed the matter and had received representation from appropriate student bodies.

The current President of the Students' Union, Mr. Olmstead, introduced his successor, Nolan Astley, to GFC. □

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## Minister Appoints New Governor

Last Wednesday, 26 March, the Minister of Alberta Advanced Education and Manpower, announced the appointment of Max R. Berretti as public member of the University's Board of Governors. Mr. Berretti's appointment is effective from the date of the announcement and is for a three-year term.

Mr. Berretti, a professional engineer, is President of MB Engineering in Edmonton. Born and educated in Florence, he gained his baccalaureate in Civil Engineering at the University of Pisa.

After serving for two years in the engineering department of the city of Florence, Mr. Berretti emigrated to Canada where he gained employment in the Alberta Department of Public Works. Since 1955, he has been a partner or President of a number of private engineering firms in this province.

In making the announcement, the Hon. J.D. Horsman emphasized the responsibility carried by members of the Board of Governors. According to the news release issued by Advanced Education and Manpower, "Mr. Berretti brings broad practical experience and dedication to furthering the education of all Albertans. His background and skill will allow him to make a valuable contribution to the University's Board of Governors." □

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## Distinguished Accountant to Occupy Winspear Chair

A two-time recipient of the Gold Medal awarded by the American Institute of Certified Public Accountants has been chosen to fill the Francis G. Winspear Chair of Professional Accounting at The University of Alberta.

Dr. Robert R. Sterling, currently Dean of the Jones Graduate School of Administration and Jesse H. Jones Distinguished Professor at Rice University in Houston, Texas, will join the Department of Accounting in the Faculty of Business Administration and Commerce on 1 July 1980. His term extends to 30 June 1982.

Dr. Sterling's duties as the Winspear Professor of Accounting will include the development of course materials relating to the chartered accountant profession as well as teaching and research activities.

Born in Oklahoma, Dr. Sterling received his education from the University of Denver and the University of Florida where he obtained his doctorate in economics in 1963. He was a post-doctoral fellow in philosophy at UCLA in 1963 and Yale in 1966.

Dr. Sterling has been teaching in American universities for more than twenty years. He began in 1955 as an instructor of economics at the University of

Denver in Colorado and has held appointments at the University of Florida; UCLA; Harpur College in Binghamton, New York; Yale University; the University of Kansas and at Rice University.

He was the Arthur Young Distinguished Professor of Accounting at the University of Kansas from 1970 to 1974 and has served as chairman or a member of eight different committees of the American Accounting Association. He has been the Director of Research for the American Accounting Association and has served as its Distinguished International Lecturer speaking at eleven European universities.

Dr. Sterling has been active on editorial boards of leading academic accounting journals and has authored or edited ten books on accounting. As well, he has served on the boards of directors of various national accounting associations.

He is an elected fellow of the Accounting Researchers International Association, a Ford Foundation Fellow in Economics, Science Faculty Fellow of the National Science Foundation, and an Ernst and Whinney Fellow. Dr. Sterling has been awarded the American Institute of Bankers Award and was the Hoover

Visiting Professor at the University of New South Wales in Sydney, Australia.

In commenting on the appointment of Dr. Sterling, Professor K. Lemke, Chairman of the Department of Accounting, says "We are delighted to have one of the most eminent academic accountants in the world come to The University of Alberta. Dr. Sterling's appointment will add significantly to our research and teaching expertise and will greatly enhance our Faculty's international visibility and prestige. His extensive knowledge and experience will be a valuable asset to the accounting profession in Canada."

The Winspear Chair was created by Francis G. Winspear in 1979 and was the first such chair to be established at this University.

Dr. Winspear is a former University of Alberta professor in business administration and commerce. He taught in the accounting area for many years and was Dean of the Faculty in 1952-1953. He is a founding partner of the national accounting firm Winspear, Higgins, Stevenson and Doane (recently merged with Deloitte, Haskins and Cells) and has been a director of a number of Canadian companies. □

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## Graduate Students' Association: New Executive

The Executive of the Graduate Students' Association for the 1980-81 term has been decided. The new members are:

**President:** Paul Fisher. A PhD candidate in Physiology, Mr. Fisher will be proposed as the GSA member of the Board of Governors and will sit on the University Planning Committee.

**Vice-President (External):** Vidya Thakur. Mr. Thakur is an MA candidate in History. He will be the GSA observer at the

National Union of Students, the Federation of Alberta Students, and is proposed as a member of The University of Alberta Senate.

**Vice-President (Internal):** David Evans. Mr. Evans, who is a PhD candidate in Biochemistry, will serve on the Academic Development Committee and the General Faculties Council.

**Vice-President (Services):** Pam Waters. Miss Waters is a PhD candidate in Geology.

**Vice-President (Finance):** Paul

McCuaig. Mr. McCuaig is an MBA candidate.

**Secretary:** John Day. Mr. Day is a PhD candidate in History.

**Publications Editor:** Bob Hux. Mr. Hux is a PhD candidate in Chemistry.

**Member-at-large of the Executive:** Peter Malcolm. Mr. Malcolm is an MA candidate in Romance Languages. He will represent graduate students on the Campus Development Committee. □



## Library Hours: Examinations Period

From 3 April until 24 April the following schedule of library hours will be in effect. Variations from these hours will be posted.

### Rutherford and Cameron Libraries

#### Buildings open:

Monday-Friday 7:45 a.m. - 2 a.m.  
Saturday 9 a.m. - 2 a.m.  
Sunday 9 a.m. - 2 a.m.

Circulation service hours will remain as posted. Cameron Library will retain extended hours until Thursday, 1 May.

### H.T. Coutts (Education) Library

#### Building open:

Monday-Friday 7:45 a.m. - 11 p.m.  
Saturday 9 a.m. - 6 p.m.  
Sunday 9 a.m. - 11 p.m.

#### Curriculum Library:

Monday - Thursday 8 a.m. - 9:30 p.m.

Friday 8 a.m. - 5 p.m.

Saturday-Sunday 9 a.m. - 5 p.m.

Circulation service hours will remain as posted.

### Good Friday (4 April)

#### Buildings open:

Cameron Library 9 a.m. - 2 a.m.  
Rutherford North 9 a.m. - 2 a.m.  
Coutts Library 9 a.m. - 11 p.m.  
(Curriculum) 9 a.m. - 4:30 p.m.  
Law Library

7:45 a.m. - 12 midnight

Rutherford South  
Study Hall 9 a.m. - 2 a.m.

Circulation services (including Cameron Reserve, Health Sciences Reserve, and Education Reserve) will be open from 9 a.m. to 4:45 p.m. Limited staff will be on duty in some Public Service Divisions, but the following facilities will be closed: Micromaterials, Cameron; Periodicals Reading Room, Rutherford South; Special Collections, Cameron; John W. Scott Library; Mathematics Library; and the Physical Sciences Library.

For library hours on Saturday and Sunday 5 and 6 April, refer to the schedules posted at library entrances. □

8 April. "Deliverance." (1972).

9 April. "The African Queen." (1951).

10 April. "Animal House." (1978).

16 April. "Hair." (1977).

#### You Asked For It Series

5 April. 2 p.m. "Kind Hearts and Coronets." (1949).

12 and 13 April. 2 p.m. "Harold and Maude." (1971).

Showing in the Centennial Library Theatre. Free admission.

#### Edmonton Public Library

8 April. 8 p.m. "Das Brot Des Backers/ The Baker's Bread." (1976).

15 April. 8 p.m. "Jane Bleibt Jane/Jane is Jane Forever." (1977).

Showing in Centennial Library Theatre. Free admission.



A painting by Eli Kish. On display in "Discovering Dinosaurs" at the Provincial Museum.

### Department of Germanic Languages

9 April. 7:30 p.m. "Einer von uns beiden" (1974). 17 Arts Building.

16 April. 7:30 p.m. "Der Aufrechte Gang." (1976). 17 Arts Building.

### The National Film Theatre

3 April. 7:30 and 9:15 p.m.

"El Espiritu De La Colmena/The Spirit of the Beehive." (Spain 1973).

4 April. 7:30 and 9:15 p.m.

6 April. 8 p.m. "Days of Heaven." (USA 1979).

9 and 10 April. 7:30 and 9 p.m. "Sohrab Shahid Saless" Double Feature.

11 April. 7:30 and 9 p.m.

"Tagebuch Eines Liebenden/ Diary of a Man in Love." (1977).

For information on the above please telephone the Citadel Theatre, 9828 101A Avenue, 426-4811, extension 69.

## Exhibitions

### SUB Art Gallery

Until 3 April. "BFA '80," a graduate students' exhibition.

### Edmonton Public Library

Continuing. An exhibition of works by Donna Brunner. Foyer Gallery of Centennial Library.

3 April. Color photographs by G. Haagsma. Photography Gallery of Centennial Library.

### Ring House Gallery

Continuing. "Reflections of India." Paintings from the sixteenth to the nineteenth century.

### Alberta Culture

Continuing. "The Persons they Were: Alberta Women, 1905-1929." Feature Gallery #1 of the Provincial Museum.

Continuing. "Presence franco-albertaine" which reflects the history of the francophone community of Alberta. Foyer of the Provincial Archives.

### Edmonton Art Club

3 April. Annual Spring Art Exhibition in the Edmonton Art Gallery.

## Radio and Television

### CJSR Radio

Sundays. 1:30 p.m. "Campus Sports." 4 p.m. "Probe," a weekly news magazine. 5 p.m. "Tempo." A classical music program.

Mondays and Fridays. 5 p.m. "Around The Town." An entertainment guide for campus and Edmonton.

Thursdays. 9:10 p.m.

"Rendezvous." A feature of interviews and profiles.

Sundays. 5 p.m. "Science Magazine."

CJSR radio (1580AM/99.1 QC Cable FM and 90.9 Capital Cable FM).

## Lectures and Seminars

### Department of Classics

3 April. 4 p.m. M. Palmer of Boston University will talk about "Alcibiades and the Question of Tyranny in Thucydides." 1-8 Humanities Centre.

coming  
events

Listings must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.

## Films

### SUB Cinema

All showings in SUB Theatre at 7 and 9:30 p.m.

3 April. "Revenge of the Pink Panther." (1977).

**Department of Philosophy**  
3 April. 3:30 p.m. C. Chevalley de Buzon will discuss "The Study of Optics and Perspective in the Scientific Revolution." 4-29 Humanities Centre.

**Department of Entomology**  
3 April. 4:30 p.m. S. Braimah will discuss "Biology of Bugs on Apples in Quebec and aids to identification of daults and late instar nymphs of Miridae (Heteroptera)." 62 Athabasca Hall Annex.

**Canadian Institute of Ukrainian Studies**  
8 April. 12:30 p.m. J. Radziejowski will talk about "Collectivization in Ukraine in Light of Soviet Historiography." (In Ukrainian.) 352C Athabasca Hall.

**Walter C. MacKenzie Professorship Lectures**  
8 and 9 April. 4 p.m. Sir Andrew Huxley of University College in London, England will give two lectures; 1) "Old and New Theories of Muscle Contraction." 2) Cross-Bridge Mechanics in Skeletal Muscle." 2-115 Education Building.

**Department of English**  
8 April. 4 p.m. R. Merrett will discuss "Religious Allusion as Theme in *Jane Eyre*." 5-20 Humanities Centre.

**Technocracy Inc.**  
8 April. 8 p.m. W. Fryers will speak on "The Social Responsibility of Science." Rocking Chair Lounge, HUB Mall.

**Department of Sociology**  
9 April. 12 noon. D. Stokes will be guest speaker.  
16 April. 12 noon. H. Krahn will be guest lecturer.

**Population Studies Seminar**  
9 April. 3 p.m. J. Gartrell will discuss "Strategies for the Analysis of Data." 14-6 H.M. Tory Building.

**Department of Botany**  
9 April. 4 p.m. S. Charlton will discuss "Oil and/or Algae." M-149 Biological Sciences Centre.

**School of the French Alliance**  
9 April. Courses at all levels in French. Telephone 435-1969 for information.

**Department of Theoretical Physics**  
9 April. 3:30 p.m. S. O'Shea of the University of Lethbridge will speak on "Monte Carlo Calculations of Molecular Systems." 640 Physics Building.  
14 April. 3:30 p.m. S. Brodsky of SLAC in California will talk about "Large Momentum Transfer Exclusive Processes in Quantum Chromodynamics." 631 Physics Building.

**Department of Business Administration and Commerce**  
10 April. 3 p.m. Alfred D. Chandler, Jr., Straus Professor of Business History at the Harvard Business School, will speak on "The rise of large industrial enterprises in Britain and on the European Continent: some comparisons with American experience." 457 Central Academic Building.

**Department of Computing Science**  
10 April. 4 p.m. A. Covington, C. Gray, R. Lake, and S. Sutphen will participate in "Support for 16-bit Microprocessors." 617 General Services Building.

**Department of Plant Science and Forest Science**  
10 April. 2 p.m. H. Wright of Texas Tech University will discuss "Role of Fire on Rangelands." E345 Chemical-Mineral Engineering Building.

**Edmonton Public Library Woodcroft Writers' Series**  
14 April. 7:30 p.m. J. Clark and M. Summers will discuss their works. Woodcroft Library, 13420 114 Avenue.

## Theatre

**Théâtre Français d'Edmonton**  
9 April. 8 p.m. "La Pomme" (The Apple). Performances in the Citadel's Rice Theatre.

**The Citadel Theatre**  
**The Rice Theatre**  
Until 6 April. "Macbeth."  
**The Shoctor Theatre**  
Continuing. "Arms and the Man."

**Studio Theatre**  
Until 13 April. "The Murder of Auguste Dupin." Performance in Studio Theatre Stage '80, Corbett Hall.

## Music

**Department of Music**  
The following concerts and recitals will be given in Convocation Hall, Arts Building. There is no admission charge.  
3 April. 5 p.m. J. Forsyth, piano, in recital.  
8 p.m. J. Boychuk, piano, in recital.  
7 April. 5 p.m. T. Cooper, flute.  
9 April. 8 p.m. Opera Excerpts.  
11 April. 8 p.m. Student Composers' Forum.  
12 April. 4:30 p.m. D. Inglis, piano.  
8 p.m. Double Reed Ensemble.  
13 April. 3 p.m. "Music in Miniature Series" with E. Dalwood conductor.  
8 p.m. An evening of chamber music.

**The Shadows at Waldens**  
1 to 5, 8 to 12 April. Jazz violinist T. Chornowol.

**Grant MacEwan Community College**  
11 and 12 April. 8 p.m. Scenes from Puccini, Mozart, Donizetti, Menotti, Strauss, and Barber by opera students. Victoria Composite School.  
13 April. 2:30 and 7:30 p.m. "Together Again," a showcase of dance and music. Jasper Place campus.

**The Royal Canadian College of Organists**  
11 April. 8 p.m. British organist Martin Neary will be featured in recital. All Saints' Cathedral, 103 Street and 100 Avenue. Admission \$4.50 adults, \$3 for students and seniors.  
12 April. M. Neary will conduct

two workshops. Robertson-Wesley United Church. Admission \$5.

**Edmonton Youth Orchestra**  
6 April. 8 p.m. The Edmonton and Calgary Youth Orchestras present a combined concert. Jubilee Auditorium. Free admission.

**The South Side Folk Club**  
12 April. 8 p.m. The South Side Folk Club Concert with Sweetgrass from Innisfail and Tramps and Hawkers from Edmonton. Tickets at HUB Box Office and Keen Kraft Music. For Club information call 475-1042 or 475-2260.

## service information

Information must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Notices should be sent to 423 Athabasca Hall.

## Notices

**Travel Slides or Films Sought**  
One of the courses of the Spring Session for Senior Citizens (5-23 May) is a slide/film presentation series. If you have fascinating travel experiences to relate through the audio-visual medium, please contact Marion Nicely, Office of Student Affairs, 432-4145.

**Research in Aging Seminar**  
The Alberta Council on Aging in cooperation with the Senior Citizens Bureau, Alberta Social Services and Community Health, will be hosting a one-day seminar presenting research in progress in Alberta in the broad field of aging. The seminar will be held on Friday, 20 June 1980, at the Kerby Centre in Calgary. Those involved in research on any aspect of the field of aging, both completed work and work in progress, are invited to present papers. Abstract forms are available from Dr. Sharon Abu-Laban (Department of Sociology). All abstracts will be subject to review procedures and are due no later than 1 May 1980.

**University Singles Group**  
University Singles Group is having their monthly social on Friday, 18 April, and will be going out for Sunday brunch on

Sunday, 20 April. If you are widowed, divorced, or single, this is an opportunity for you to enjoy social activities, conversation and music with others like yourself. Membership is \$5.00 for the year. For information call Audrey at 487-9195, or leave your name and telephone number at the Students' Affairs Office in Athabasca Hall.

## Scholarships, Fellowships and Awards

Bursaries are available for six-week total immersion courses in either French or English. The courses run from 30 June to 8 August 1980 at York University in Toronto, and are designed for students and teachers. Students (within Alberta) applying for bursaries should telephone Roger Mahé at 427-5538. Teachers and non-bursary students should contact: York University, Centre for Continuing Education, 4700 Keele Street, Downsview, Toronto, Ontario, M3J 2R6. Telephone 416-667-2504.

## Positions Vacant Off-Campus

### Secretary II

Required immediately to perform secretarial functions for the Secretary to the Executive Director. Completion of Grade XII, supplemented by Business School training. Accurate typing of at least 60 wpm. Minimum of two years experience. Medical terminology would be an asset. (\$12,828-\$13,775). Apply: Provincial Cancer Hospitals Board, Personnel Department, 11560 University Avenue, Edmonton, Alberta T6G 1Z2

### Keypunch Operator

Required immediately in our Department of Epidemiology. Duties to include keypunching using data entry terminals and clerical duties as required. Some data entry training or experience required. (\$12,060-\$12,972). Apply: Director of Personnel, Provincial Cancer Hospitals Board, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2

### Library Assistant

Edmonton Public Library requires a library assistant for temporary duration of approximately six months. Responsibilities include providing circulation, reference, and program services to the public, particularly children. Minimum requirements: two years University or other post secondary education; one year relevant experience in public service/children services. An ability to type is an asset. \$928 to \$1,200 per month. Apply to: Personnel Division, 3rd floor, Centennial Library, Edmonton.

### Salesperson required

Ideal summer employment. Car necessary. Salary plus excellent commissions. 469-3153.

## Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 28 March 1980.

Financial Records Clerk (\$830.15-\$991.42)—Office of the Comptroller  
Clerk Typist II (\$830.15-\$991.42)—Agriculture and Forestry  
Senior Clerk (part-time) (\$446.73-\$534.52)—Academic Staff Association  
Senior Clerk (\$893.47-\$1,069.05)—Parking Services  
Dental Records Clerk (\$893.47-\$1,069.05)—Dentistry  
Clerk Typist III (\$922.13-\$1,109.66)—Administrative Services  
Clerk Steno III (\$959.16-\$1,157.44)—Mineral Engineering; Botany; Ukrainian Studies  
Clerk Steno III (part-time) (\$479.58-\$578.77)—Geology  
Admission Records Trainee/Coordinator \$959.16-\$1,157.44)—Office of the Registrar  
Student Record Processing Clerk \$959.16-\$1,157.44)—Education  
Accounts Clerk (\$991.42-\$1,205.22)—Office of the Comptroller  
Medical Steno (\$1,030.83-\$1,257.77)—Psychiatry; Provincial Laboratory  
Secretary (\$1,069.05-\$1,309.14)—Medicine; Medical Laboratory  
Science; Centre for Study of Mental Retardation  
Department Secretary (\$1,205.22-\$1,484.74)—Romance Languages  
Departmental Secretary/Administrative Assistant (\$1,365.29-\$1,690.17)—Medicine (part trust)  
Technical Assistant (\$991.41-\$1,205.22)—Devonian Botanic Garden  
Storeman II (\$1,030.83-\$1,257.77)—Central Stores  
Storeman II (7.5 hours/day) (\$1,017.25-\$1,241.50)—Printing Services  
Technician I (trust) (\$1,069.05-\$1,309.14)—Medicine  
Technician I/II (\$1,069.05-\$1,484.74)—Physiology (trust); Chemistry  
Food Service Worker IV (\$1,109.66-\$1,365.29)—Housing and Food Services  
Control Center Operator I (\$1,109.66-\$1,365.29)—Physical Plant  
Assistant Buyer (\$1,157.44-\$1,423.81)—Purchasing  
Electronics Technician I/II (\$1,157.44-\$1,617.33)—Technical Services  
Technician II (trust) (\$1,205.22-\$1,484.74)—Mineral Engineering  
Farm Equipment Technician II (\$1,205.22-\$1,484.74)—Animal Science  
Laboratory Technologist I (\$1,205.22-\$1,484.74)—Provincial Laboratory  
Bacteriology Technologist I (trust, term) (\$1,205.22-\$1,484.74)—Medical Bacteriology  
Technologist I/II (\$1,205.22-\$1,690.17)—Home Economics  
Biochemistry Technologist I/II (trust) (\$1,205.22-\$1,690.17)—Cancer Research Unit  
Draftsperson II (\$1,257.77-\$1,550.43)—Physical Plant

Computer Operator II (\$1,257.77-\$1,550.43)—Educational Research Services  
Cooling Plant Operator I (\$1,309.14-\$1,617.33)—Physical Plant  
Art Technician Demonstrator I (Cutter/Seamstress) (\$1,309.14-\$1,617.33)—Drama  
Electronics Technician II (\$1,309.14-\$1,617.33)—Technical Services  
Electronics Technician II/III (\$1,309.14-\$1,843.07)—Physics  
Administrative Assistant (\$1,365.29-\$1,690.17)—Anatomy; Recreation Administration  
Biology Technologist II (\$1,365.29-\$1,690.17)—Genetics  
Engineering Technologist III (\$1,484.74-\$1,843.07)—Physical Plant  
Typographical Tradesman III (\$1,423.81-\$1,763.03)—Printing Services  
Electronics Technician III (\$1,484.74-\$1,843.07)—Physics  
Art Technician Demonstrator II (\$1,484.74-\$1,843.07)—Drama  
Typographical Tradesman IV/V (\$1,484.74-\$2,009.10)—Printing Services  
Programmer/Analyst II/III (\$1,484.74-\$2,195.45)—Administrative Systems (two positions); Physics; Printing Services  
Biochemistry Technologist III (trust) (\$1,550.43-\$1,924.31)—Medicine  
Building Superintendent II (\$1,617.33-\$2,009.10)—Physical Plant  
Administrative Manager (\$1,690.17-\$2,101.07)—Housing and Food Services  
Programmer/Analyst III (\$1,763.03-\$2,195.45)—Computing Services (two positions); Physical Plant  
Controlsfitter (Instrument Mechanic) (\$2,109.47-\$2,204.40)—Physical Plant

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library—Room 512 should be consulted for further information as to availability and position requirements.

Duplicating Operator II (\$893.47-\$1,069.05)—Library Support Services  
Programmer/Analyst III (\$1,763.07-\$2,195.45)—Systems  
Programmer/Analyst IV (\$2,101.07-\$2,629.04)—Systems

## Advertisements

must reach the Editor by 3 p.m. on the Thursday prior to publication, which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

### Accommodations available

For sale—Lakefront lot at Golden Sands Beach. (Lac La Biche) 400x80'

frontage, southern exposure, sandy beach. 462-3287.

For rent—Furnished two bedroom house, walking distance to University, available 15 May - 30 June. 433-0789.

For rent—August or September, one year lease. Furnished five bedroom home, Windsor Park. Large finished recreation room, large fenced yard with barbecue area. Double garage, walking distance University. 432-7745.

For sale—By owner. Custom built spacious three bedroom bungalow. Two bathrooms. Fully developed basement, two garages. Ideal faculty home. Extras. Good mortgage. Phone 434-6098.

For sale—Four bedroom split level in Aspen Gardens, fully carpeted, two baths, family room, double garage. Near Whitemud Creek for good hiking and cross-country skiing. Direct bus service to University. Private sale. \$128,500. 437-7421 after four and weekends.

For sale—Revenue home, by owner, 9¾% mortgage. Excellent southside location. 434-8961.

For rent—Fully furnished three bedroom bungalow, 75% developed basement, 2½ baths, fireplace. Direct bus to University. 1 June - 31 December, 1980. 432-3268, 462-0509 home.

For rent—Large house, three minute walk University for summer months from April. 433-3498.

Sublet—Tastefully furnished one bedroom apartment. Across the river from University. Glorious valley view. Available 1 May - 31 August or any period in between. Call Terfloth 432-2271, 488-4731.

For rent—Furnished three bedroom house, appliances, garage. 5 minute walk from University. Available August 1980 - August 1981. No pets. \$550. 434-7965.

For sale—By owner, small bungalow in Millcreek area, close to ravine, ideal for couple, 220 wiring, forced air, new roof, insulation, excellent condition, large garage. \$64,000. Evenings 454-0943, no agents.

For rent—Executive townhouse. Excellent westend location. Three bedrooms. Fridge, stove, dishwasher, dryer. Heated garage, automatic door. Fireplace. Phone 435-0250, weekends, evenings after 22 March.

For rent—Attractive, completely furnished three bedroom house. Available 1 August 1980 - 1 August 1981. 464-2550 evenings.

For rent—Three bedroom condominium available for May/June. \$370 monthly. Fridge, stove included. References. 436-8167.

For exchange—Victoria. Three bedroom home for your home in Edmonton in July. Large lot near University of Victoria. Cogger, 3686 Ophir Street, Victoria. V8P 4E2.

For sale—Vancouver Island waterfront: Two bedroom cottage, insulated, Franklin stove, many built-ins, separate small bunkhouse, toolshed, beautiful beach, protected moorage,

good swimming, fishing, oysters, excellent winter skiing nearby. Lot size 180' x 100'. \$72,600. Phone (604) 754-1588, 439-0427.

To sublet—1 May - 1 September, three bedroom apartment, Riverbend. Fully furnished. Rent \$400 monthly. Call 436-6436 evenings, 432-8979 days. (Ask for Allison).

For sale—By owner. 36 Ave. 114 St. Open beam, three bedroom, three bathrooms, front drive garage, finished basement with two bedrooms. Clear title. Mortgage with interest below market, available from owner. 436-4087.

For (summer) rent—July and August. Two bedroom row house, Michener Park. Warm and lovely, furnished. \$250. 436-9357.

For rent—Valleyview. Late May 1980 - August 1981. Furnished three bedroom house. No pets. Non-smoking family preferred. 432-4584, 484-7575.

For sale—Walk to University. Over 2,000 square feet of spacious living in this 3 bedroom home. Unique in design, central vacuum, carpeted throughout plus many extras. Vendor would consider land in trade. Priced at only \$136,900. For your exclusive viewing call Carol Harley, 437-3908 res., 436-5080 A.E. Le Page Melton Real Estate Ltd.

For sale—Professor's dream. Walk to University from this solid, comfortable home in Belgravia. Tall trees, smooth lawns mark this an area of quiet tranquility. Relax in comfort and warmth of an open wood fireplace. Convert one of the four bedrooms to a comfortable den. Asking \$110,900. Excellent terms available or trade your present home. For details call Earl Scoville, 436-4488 res. 436-5080 A.E. Le Page Melton Real Estate Ltd.

For rent—Near University. Furnished three room suite. Major appliances. Private entrance. Utilities included. \$275. Available 1 May. 434-0569.

For rent—Four bedroom furnished house, in Grandview, for one year from 1 June. Phone 434-1259.

For sale—By owner. \$109,900 for 2,200 sq. ft. of professionally developed living space. Bi-level on beautifully treed three acres. S.E. of city. Six bedrooms, 2½ baths, patio doors to deck. Family room with Fisher fireplace. Attractive

assumable mortgage. \$70,000 at 11½% to May 1984. 922-5323.

For rent—Furnished three bedroom bungalow with family room, office and full bath in developed basement. 1 July 1980 - 30 June, 1981. One year lease. One block from elementary schools. One half block from bus direct to University. Petrolia area. References, deposit required. Phone 432-5777 or 435-3195.

#### Accommodations wanted

High School teacher wants to rent, unfurnished main floor or upper floor of a house, southside, by 1 May. Phone 435-5003 between 4 - 6 p.m.

#### Automobiles and others

Wanted older Datsun 510 or other Japanese car, working or not. 477-2908.

1974 Spitfire, 43,000 miles, excellent condition, has mag wheels, Pirelli radials, baggage/ski rack, AM/FM cassette. minimal of winter driving. Call 469-7855 evenings.

1973 Alfa Romeo Berlina. Four door. 75,000 miles, one owner. Good condition. 482-6718.

1979 Ford Vantastic, Super Van, E150, 8cyl., grey/blue, radials, automatic, ps, pb, air, cruise, pulse wipers, two gas tanks, three sunroofs, five long tinted windows, sofa bed, table, fridge, sink, professionally customized in corduroy, carpeted, four swivel captain's chairs, power locks, light controls, AM/FM stereo, front and rear speakers, small bar unit, shelving, back storage unit. Asking \$18,000 or best offer. Phone 456-1018.

For sale—1967 Valiant Signet V8, four doors, good running condition, \$495. 487-6206.

#### Goods for sale

Wanted old color portable TVs. Call 477-2908.

For sale—Italian Provincial chesterfield and chair, blue-green brocade. Excellent condition. \$500. 487-6206.

Oriental Carpets—Several quality older pieces including two prayer rugs and one large kilim. 488-4255.

Mattresses. One queen foam rubber \$80, one twin foam rubber \$40, one 30x74 \$30. 434-4882.

Wanted puppy by 12 year old. 466-0193, 432-4544.

Stereo for sale. \$290. 435-6398.

For sale—Chesterfield suite, blue/black floral. Kitchen suite, chrome, six high-back chairs, two low back, blue floral. Stereo, cabinet model. Other small items. Call 465-2880 evenings.

#### Services

Edmonton Yoseikan Karate Club:

Call Sport Alberta 458-0440.

Top quality typing, 455-6398.

Expert typing—theses, etc. 455-0641.

Country Style Mandarin Food—Happy Garden Restaurant. 6525 111 Street. 435-7622. Business hours: Tuesday, Wednesday, Thursday 4-11 p.m. Friday, Saturday 4 p.m. - 12 a.m. Sunday 4 - 10 p.m.

Drafting Services—Specializing in technical drafting (graphs, charts, diagrams, etc.) for publications, reports, lectures, papers and presentations. Call 436-3796 Protech Consulting Ltd. after 6 p.m.

Typing done at home, 15 years experience. 475-0096.

Will do typing at home, 10 years experience, 488-1549.

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Alterations, renovations, additions, interior finishing, interior design. Steve Tominuk 929-8549.

Experienced typist, southside. 435-0404.

Custom tailoring and alterations.

Serving University area and westend. 487-3053.

Typist, southside 436-3524.

Kozak Business Services—Typing of theses, résumés, reports, manuscripts, proposals and correspondence.

Student discounts available. 423-3068, 483-6075.

Painting—University students, five years experience. For estimates phone 436-7510.

Child care—Seeking responsible person to live in and care for 6½ year old boy during parts of May/June while away for field work. Very close to University. Child at school or after school care all day. Contact Doug Bingham 432-4126, 432-2089 days, 432-0730 nights.

Complete renovations. Free design and estimates. 468-5203, 467-5078 (residence) Cartier Developments.

Driving to Ontario end of April, person needed to share driving, gas. 423-4128 or 432-5495.

Summer employment—Baby sitter wanted come-in, four days weekly, 1 May to 31 August. Southgate area. ECS studies an asset. Phone 435-6444 evenings, 437-1736 days.

Looking for the security a second income, can provide? We can help you set up a high income, part-time business of your own. Phone 468-1362 6 p.m. - 8 p.m. for appointment.

Spanish For Travelling—Five week courses. Starts end of April. Mini-groups. Professor Alonso 439-9125.

Nixon Construction Services. 437-7104.

Yoga for better health: Keep fit yoga group offers classes Wednesday 6:30 p.m. at University. Six weeks. Starts 23 April. Fee \$20. University full-time students \$20. Part-time students and employees \$15. Registration: Room 9, floor 14, Tory Building 9 April, 8:30 p.m., 23 April 5 p.m.

Donnic Typing Services Ltd. Specializing in word processing. 301A Whyte Avenue Bldg. 10454 Whyte Avenue. 432-1419.

Guitar instruction. Folk, blues, bluegrass, rock. Finger and flat picking, slide styles. Beginners, intermediate. Private or group. Music reading—playing skills. Reasonable rates. Flexible times. 424-4787.

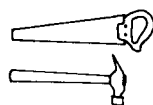


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